

**AMENDMENTS**

Please amend the above -identified application as follows:

**In the claims:**

Please cancel claims 11-21, 28-42, 53-65 and 67-79, without prejudice to renewal.

1. (Original) A method for removing an agent from a physiological efferent fluid collection site, said method comprising:  
introducing a non-occlusive aspiration element to a target site at least proximal to said physiological efferent fluid collection site; and  
activating said aspiration element when said agent is at least predicted to be present in said target site to selectively remove said agent from said physiological efferent fluid collection site.
2. (Original) The method according to Claim 1, wherein said physiological efferent fluid collection site is a vascular fluid collection site.
3. (Original) The method according to claim 2, wherein said vascular fluid collection site is a cardiovascular fluid collection site.
4. (Original) The method according to Claim 3, wherein said cardiovascular fluid collection site is a coronary cardiovascular fluid collection site.
5. (Original) The method according to Claim 4, wherein said coronary cardiovascular fluid collection site is a coronary sinus.
6. (Original) The method according to Claim 1, wherein said physiological efferent fluid collection site is present in a mammal.
7. (Original) The method according to Claim 6, wherein said mammal is a human.

8. (Original) The method according to Claim 1, wherein said agent is a therapeutic agent.
9. (Original) The method according to Claim 1, wherein said agent is a diagnostic agent.
10. (Original) The method according to Claim 9, wherein said diagnostic agent is a contrast agent.
- 11-21.(Canceled)
22. (Original) A system for selectively removing an agent from a physiological efferent fluid collection site, said system comprising:
  - (a) a non-occlusive aspiration lumen;
  - (b) an aspiration mechanism operatively connected to said non-occlusive aspiration lumen;
  - (c) an actuation controller element for controlling actuation of said aspiration mechanism; and
  - (d) a detector for at least predicting the presence of said agent in said physiological efferent fluid collection site.
23. (Original) The system according to Claim 22, wherein said system further comprises a feedback element from said detector to said actuation controller element.
24. (Original) The system according to Claim 23, wherein said actuation controller element selectively actuates in response to signals from said feedback element.
25. (Original) The system according to Claim 22, wherein said controller element is an adaptive controller element.
26. (Original) The system according to Claim 22, wherein said aspiration lumen is present in an elongated tubular structure.
27. (Original) The system according to Claim 26, wherein said elongated tubular structure

is a catheter device.

28-42 (Canceled)

43. (Original) A device for selectively removing an agent from a physiological efferent fluid collection site, said device comprising:

- (a) a non-occlusive aspiration lumen present in an elongated tubular structure having a fenestrated distal end;
- (b) an aspiration mechanism operatively connected to said non-occlusive aspiration lumen; and
- (c) an actuation controller element for controlling actuation of said aspiration element.

44. (Original) The device according to Claim 43, wherein said elongated tubular structure comprises an expandable distal end.

45. (Original) The device according to Claim 43, wherein said elongated tubular structure comprises a non-expandable distal end.

46. (Original) The device according to Claim 43, wherein said fenestrated distal end comprises sealable fenestrae.

47. (Original) The device according to Claim 43, wherein said fenestrated distal end comprises non-sealable fenestrae.

48. (Original) The device according to Claim 43, wherein said fenestrated distal end comprises both sealable and non-sealable fenestrae.

49. (Original) The device according to Claim 43, wherein said device further comprises a positioning and/or retaining element.

50. (Original) The device according to Claim 43, wherein said elongated tubular structure

comprises an open distal end.

51. (Original) The device according to Claim 43, wherein said elongated tubular structure comprises a sealed distal end.

52. (Original) The device according to Claim 43, wherein said device further comprises a detector for at least predicting the presence of said agent in said physiological efferent fluid collection site.

53-65 (Canceled)

66. (Original) A kit for selectively removing an agent from a physiological efferent fluid collection site, said kit comprising:

- (a) an aspiration element comprising:
  - (i) a non-occlusive aspiration lumen;
  - (ii) an aspiration mechanism operatively connected to said non-occlusive aspiration lumen;
  - (iii) an actuation controller element for controlling actuation of said aspiration element; and
- (b) instructions for practicing the method of Claim 1.

67-79 (Canceled)